Approved for use through 10/31/2002. OMB 0651-0032 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to r

UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR \S 1.53(b))

| Attorney Docket No. | | 1659.0610001 | | | |
|---|----------------|-------------------|-----|--|--|
| First Inventor | | James L. Richards | - 2 | | |
| Title System and Method For Medium Wide Band Communications by Impulse Radio | | | | | |
| Express | Mail Label No. | | | | |

| | APPL | ICATION ELEMENTS | | 1 | , D D | EGG MO | Assistant Comm Box Patent App | issioner for Patents | %S ≅ |
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| 1. | 7 Fee Transmitta | l Form (e.g., PTO/SB/17) | | 7. | | CD-ROM or C | D-R in duplicat | e, large table or Co | omputer Program |
| | | , and a duplicate for fee processing) | 1 | | (4 | Appendix) | | | |
| l _ | _ | | | 8. 1 | | | | uence Submission | Ĺ |
| 2. | Applicant clain | ns small entity status. | | | (ij | `applicable, all | necessary) | | |
| 1 | See 37 CFR 1.2 | | | | а. Г | 1 Computer R | eadable Form (CI | RF) | |
| _ | | rm . 1.D | | 1 | h Sr | | | , | |
| 3. | | [Total Pages 83 | | b. Specification Sequence Listing on: | | | | | |
| | (preferred arrangent - Descriptive title of | nent set forth below) I the Invention | | | | i. 🔲 CI | D-ROM or CD-R (| 2 copies); or | |
| | - Cross Reference to | erence to Related Applications Regarding Fed sponsored R & D to sequence listing, a table, uter program listing appendix nd of the Invention umary of the Invention cription of the Drawings (if filed) | | ii. 🔲 paper | | | | | |
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| | or a computer prog | | | • | c | Statements | verifying identity | of above copies | |
| | - Background of the | | | ACCOMPANYING APPLICATION PARTS | | | | | |
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| | - Detailed Descripti | | | K7 | A agi P | Donare (cover che | et & document(s)) | | |
| | Claim(s) Abstract of the Di | sclosure | | 9. | \boxtimes | Assignment | rapers (cover she | ct & document(3)) | |
| 1 _ | | | | 10. | \boxtimes | 37 CFR 3.73 | (b) Statement | Power of Atto | rney |
| 4. 🗵 | Drawing(s) (35 | U.S.C. 113) [Total Sheets | <u>29 1</u> | | <u> </u> | (when there is | | _ | • |
| 5 . 0 | ath or Declaration | [Total Pages | <u>3</u> 1 | 11. | П | English Tran | nslation Documen | t (if applicable) | |
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| 1 | a. M rewry exec | dica (original of copy) | | 12. | | Information | | Copies of IDS | ; |
| 1 | b. Copy from | a prior application (37 CFR 1.63(d)) ation/divisional with Box 17 completed) | 1.63(d)) | l | | Statement (I | DS)/PTO-1449 | Citations | |
| 1 | (for continue | | mpleted) | 13. | | Preliminary | Amendment | | |
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| 1 | | Signed statement attached delet | | 14. | \boxtimes | | ipt Postcard (MPI ecifically itemized) | 2P 3U3) | |
| | | named in the prior application, | see 37 CFR §§ | | | (Should be spe | etyteatty ttemizetty | | |
| | 1 | 1.63(d)(2) and 1.33(b). Data Sheet. See 37 CFR 1.76. | | 15. | 5. | | py of Priority Do | cument(s) | |
| 6. 🗵 | 1 Application Data | | | | | (if foreign pric | ority is claimed) | | |
| " " | 1 ippiituus 2 uu | | | 16. | | Request and C | Certification u under | fication u under 35 U.S.C. 122 (b)(2)(B)(i). Ap | |
| | | | | | | attach form P7 | ro/SB/35 or its equiv | valent. | |
| | | | | 17 | \boxtimes | Other: Au | thorization under | 37 C.F.R. § 1,136(a | 1)(3) |
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| 17. | If a CONTINUING | APPLICATION, check appl | ropriate box, and sup | oply ti | he req | uisite informat | ion below and in | a preliminary amena | lment, |
| or in | an Application Data S | heet under 37 CFR 1.76: | | | | | | | |
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| | Prior application info | ormation: Examiner | | | | Group/Art (| Onii: | · · · · · · · · · · · · · · · · · · · | |
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| NAN | ME. | STERNE, KESSLER, GOLDSTEIN | & FOX P.L.C.C. | | | | | | |
| | | Attorneys at Law | PATENT TRADEMARK 6 | FFICE | | | | | |
| ADI | ORESS | Suite 600, 1100 New York Ave | nue, N.W. | - | | | | | |
| CIT | | | STATE | DC | , | | ZIP CODE | 20005-3934 | |
| | | Washington | | | | 1.0000 | | | |
| COU | JNTRY | USA | TELEPHONE | (20 | _ | 1-2600 | FAX | (202) 371-2540 | <i>)</i> |
| NAN | IE (Print/Type) | Jeffrey R. Kurin | | | R | egistration No. | (Attorney/Agent) | 41,132 | |
| SIG | NATURE | Jelly Ku | • | | | | | Date 1 18 | 01 |
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Under the Paperwork Reduction Act of 1995, no persons are required to

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

| Complete if Known | | | | | |
|-------------------------------------|-------------------|--|--|--|--|
| Application Number (to be assigned) | | | | | |
| Filing Date | Herewith | | | | |
| First Named Inventor | James L. Richards | | | | |
| Examiner Name | (to be assigned) | | | | |
| Group Art Unit | (to be assigned) | | | | |
| Attorney Docket No. | 1659.0610001 | | | | |

| METHOD OF PAYMENT (check one) | FEE CALCULATION (continued) | | | | | | |
|--|-----------------------------------|----------------|---------------------------|-------------|--|----------------------------|--|
| | 3. ADDIT | | | | | | |
| 1. Light The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: | Large | Entity | Small | Entity | | | |
| Deposit Account Number 19-0036 | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee D | escription | Fee paid |
| Deposit Account Sterne, Kessler, Goldstein & Fox P L L.C. | | ., | | | a 1 1 m | | |
| Name Stellie, Ressler, Goldstelli & Fox F. E.c. | 105 | 130 | 205 | 65 | Surcharge - late filing f | | P == |
| ☐ Charge Any Additional Fee Required | 127 | 50 | 227 | 25 | Surcharge - late provisiona | | * ************************************ |
| Under 37 CFR §§ 1.16 and 1.17 | 139 | 130 | 139 | 130 | Non-English specifi | cation | ω |
| | 147 | 2,520 | 147 | 2,520 | For filing a request fo | r <i>ex parte</i> reexamin | nation |
| ☐ Applicant claims small entity status See 37 CFR 1.27 | | | | | B | 6 OID i to Even- | |
| | 112 | 920* | 112 | 920* | Requesting publication of action | ř 🗮 | |
| 2. ⊠Payment Enclosed: | 113 | 1,840* | 113 | 1,840* | Requesting publication of | of SIR after Examiner a | action |
| Check Credit card Money Order Other* | 115 | 110 | 215 | 55 | Extension for reply w | ithin first month | |
| *Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036 | | | | | | | |
| FEE CALCULATION | 116 | 390 | 216 | 195 | Extension for reply w | ithin second month | |
| 1. BASIC FILING FEE | 117 | 890 | 217 | 445 | Extension for reply w | ithin third month | |
| Large Entity Small Entity | 118 | 1,390 | 218 | 695 | Extension for reply w | ithin fourth month | |
| Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$) | 128 | 1,890 | 228 | 945 | Extension for reply w | ithin fifth month | |
| 101 710 201 355 Utility filing fee \$710.00 | 119 | 310 | 219 | 155 | Notice of Appeal | | |
| 106 320 206 160 Design filing fee | 120 | 310 | 220 | 155 | Filing a brief in suppo | ort of an appeal | |
| 107 490 207 245 Plant filing fee | 121 | 270 | 221 | 135 | Request for oral hear | | |
| 108 710 208 355 Reissue filing fee | 138 | 1,510 | 138 | 1,510 | Petition to institute a | ing | |
| 학계4 150 214 75 Provisional filing fee | 140 | 110 | 240 | 55 | Petition to revive - un | | |
| # SUBTOTAL (1) (\$) 710.00 | 141 142 | 1,240 1,240 | 241 242 | 620 620 | Petition to revive - un Utility issue fee (or re | | |
| 710.00 | 143 | 440 | 243 | 220 | Design issue fee | | |
| | 144 | 600 | 244 | 300 | Plant issue fee | | |
| | 122 | 130 | 122 | 130 | Petitions to the Comr | nissioner | |
| EXTRA CLAIM FEES Fee from | 123 | 130 | 123 | 130 | Petitions related to pr | ovisional applicatio | ns |
| Extra below Fee Paid | 126 | 180 | 126 | 180 | Submission of Inform | | |
| Total Claims 47 - 20** = 27 X \$18.00 = \$486.00 | 581 | 40 | 481 | 40 | | | \$40.00 |
| Indep. Claims 9- 3** = 6 X \$80.00 = \$480.00 | | | | | Recording each patent assignment per property (times number of properties) | | 410.00 |
| Multiple Dependent \$0.00 = \$0.00 | 146 | 710 | 246 | 355 | Filing a submission a (37 CFR 1.129(a)) | tter final rejection | |
| Large Entity Small Entity Fee Fee Fee Fee Description | 149 | 710 | 249 | 355 | For each additional in (37 CFR 1.129(b)) | vention to be exam | nined |
| Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20 | 179 | 710 | 279 | 355 | Request for Continue | d Examination (RC | E) |
| 102 80 202 40 Independent claims in excess of 3 | 169 | 900 | 169 | 900 | Request for expedited | d examination of a | design |
| 104 270 204 135 Multiple dependent claim | | | | | application | | |
| 108 80 209 40 **Reissue independent claims over original patent 110 18 210 9 **Reissue claims in excess of 20 and over | Other fee (s | pecify): | | | | | |
| 110 18 210 9 **Reissue claims in excess of 20 and over original patent | Other fee (s | pecify) . | | | | | |
| SUBTOTAL (2) (\$) 966.00 | *Reduced by Basic Filing Fee Paid | | | Paid | CHOTOTAL | 40.00 | |
| ** or number previously paid, if greater, For Reissues, see above SUBMITTED BY | | SUBTOTAL (3) (| | | | | olicable) |
| Joffroy P. Kurin | | [| | | | | |
| Name (Print/Type) Jeffrey R. Kurin Attorney for Applicant | | (Atte | gistration omey/Agent) | NO. | 41,132 | Telephone | 202-371-2600 |
| Signature I Afrey R. Krus | | | | | | Date | 1/18/01 |



STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

ATTORNEYS AT LAW

HOO NEW YORK AVENUE, N.W . WASHINGTON, D.C. 20005-3934

PHONE (202) 371-2600 . FACSIMILE (202) 371-2540 . www.skgf.com

ROBERT GREENE STERNE
DWARD J KESSLER
JORGE A. GOLDSTEIN
SAMUEL L. FOX
DAVID K.S. CORNWELL
ROBERT W ESMOND
TRACY-GENE G DURKIN
MICHELE A CIMBALA
MICHAEL B RAY
ROBERT E SOKOHL
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KAREN R MANKOWI SUZANNE E ZISKA** BRIAN J DEL BUONO** ANDREA J KAMAGE** NANCY J LEITH** ELIZABETH J HAANES** MARK P TERRY** TARJA H NAUKKARINEN**

*BAR OTHER THAN D.C.
**REGISTERED PATENT AGENTS

January 18, 2001

WRITER'S DIRECT NUMBER:
(202) 789-5524
INTERNET ADDRESS:
JKURIN@SKGF.COM

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

(claiming priority to U.S. Provisional Appl. No. 60/176,800; Filed: 1/19/2000)

Appl. No. (to be assigned); Filed: Herewith

For: System and Method For Medium Wide Band Communications by

Impulse Radio

Inventor:

James L. Richards

Our Ref:

1659.0610001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17) (in duplicate);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. Application Data Sheet;
- 4. U.S. Utility Patent Application entitled:

System and Method For Medium Wide Band Communications by Impulse Radio

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Commissioner for Patents January 18, 2001 Page 2

and naming as inventor:

James L. Richards

the application consisting of:

- a. A specification containing:
 - i. 71 pages of description prior to the claims;
 - ii. 11 pages of claims (47 claims);
 - iii. a one (1) page abstract;
- b. 29 sheets of drawings: (Figures 1A, 1B, 2A, 2B, 3, 4, 5A, 5B, 6, 7, 8, 9, 10A, 10B, 10C, 10D, 11A, 11B, 11C, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28 and 29); and
- c. A facsimile copy of an executed Declaration;
- 5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 6. Recordation Form Cover Sheet;
- 7. A facsimile copy of an executed Assignment to Time Domain Corporation, recordation of which is hereby respectfully requested;
- 8. A facsimile copy of an executed Power of Attorney from Assignee;
- 9. A facsimile copy of an executed Certificate under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached;
- 10. Two (2) return postcards; and
- 11. Our check No. 30112 for \$1,716.00 to cover: \$710.00 Filing fee for patent application; \$40.00 Assignment recordation fee; and \$966.00 Fee for excess claims.

Commissioner for Patents January 18, 2001 Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey R. Kurin

Attorney for Applicant Registration No. 41,132

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